Timo Flessner, et al. Application No. 10/565,181

AMENDMENT OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A compound of the formula

in which

R¹ is a group of the formula -NR²-CO-NR³R⁴, -NR²-CO-CO-OR⁵, -NH-SO₂R⁶, -SO₂NHR⁷ or -NH-CO-R⁸, where

 R^2 is hydrogen or C_1 - C_6 -alkyl,

 R^3 and R^4 are independently of one another hydrogen, C_1 - C_6 -

alkyl, C₃-C₈-cycloalkyl or phenyl, which is optionally substituted by up to 3 radicals independently of one another selected from the group of halogen, cyano, C₁-

C₆-alkyl, C₁-C₆-alkoxy, trifluoromethyl and

trifluoromethoxy, or

 R^3 and R^4 together with the nitrogen atom to which they are

bonded form a 5- to 6-membered heterocyclyl, R⁵ is hydrogen, C₁-C₆-alkyl, C₂-C₉-cycloalkyl or ary

is hydrogen, C_1 - C_6 -alkyl, C_3 - C_8 -cycloalkyl or aryl, where C_1 - C_6 -alkyl is optionally substituted by aryl,

R⁶ is C₁-C₆-alkyl, C₃-C₈-cycloalkyl, 5- to 6-membered

heterocyclyl, aryl or 5- to 6-membered heteroaryl, where C₁-C₆-alkyl is optionally substituted by aryl,

R⁷ is hydrogen, C₁-C₆-alkyl, C₃-C₈-cycloalkyl, 5- to 6-membered heterocyclyl, aryl or 5- to 6-membered

heteroaryl, where C₁-C₆-alkyl is optionally substituted

by aryl,

 R^8 is C_3 - C_8 -cycloalkyl, C_1 - C_6 -alkyl or phenyl, where C_1 -

C₆-alkyl is substituted by C₁-C₆-alkoxy and phenyl by 1 to 3 radicals independently of one another selected from the group of halogen, cyano, C₁-C₆-alkyl, C₁-C₆-

alkoxy, trifluoromethyl and trifluoromethoxy,

or the salts, solvates and solvates of the salts a salt thereof.

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 R^7

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2. (Currently Amended) The compound as claimed in claim 1, where

R¹ is a group of the formula -NR²-CO-NR³R⁴, -NR²-CO-CO-OR⁵, -NH-SO₂R⁶, -SO₂NHR⁷ or -NH-CO-R⁸, where

 R^2 is hydrogen or C_1 - C_4 -alkyl, are independently of one another hydrogen, C_1 - C_4 -

are independently of one another hydrogen, C_1 - C_4 -alkyl, C_3 - C_6 -cycloalkyl or phenyl, which is optionally substituted by up to 2 radicals independently of one another selected from the group of fluorine, chlorine, bromine, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy,

bromine, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, trifluoromethyl and trifluoromethoxy, or

R³ and R⁴ together with the nitrogen atom to which they are bonded form a 5- to 6-membered heterocyclyl,

R⁵ is hydrogen, C₁-C₄-alkyl, C₃-C₆-cycloalkyl, or aryl, where C₁-C₄-alkyl is optionally substituted by aryl,

R⁶ is C₁-C₄-alkyl, C₃-C₆-cycloalkyl, 5- to 6-membered heterocyclyl, aryl or 5- to 6-membered heteroaryl,

where C_1 - C_4 -alkyl is optionally substituted by aryl, is hydrogen, C_1 - C_4 -alkyl, C_3 - C_6 -cycloalkyl, 5- to 6-membered heterocyclyl, aryl or 5- to 6-membered heteroaryl, where C_1 - C_4 -alkyl is optionally substituted

by aryl,

R⁸ is C₃-C₆-cycloalkyl, C₁-C₄-alkyl or phenyl, where C₁-C₄-alkyl is substituted by C₁-C₄-alkoxy and phenyl by 1 to 2 radicals independently of one another selected from the group of fluorine, chlorine, bromine, cyano, C₁-C₄-alkyl, C₁-C₄-alkoxy, trifluoromethyl and

trifluoromethoxy,

or the salts, solvates and solvates of the salts a salt thereof.

3. (Currently Amended) The compound as claimed in claim 1, where

is a group of the formula –NH-CO-NHR³, -NH-CO-CO-OH, -NH-SO₂R⁶, -SO₂NHR⁷ or -NH-CO-R⁸, where

R³ is hydrogen, C₁-C₄-alkyl, C₅-C₆-cycloalkyl or phenyl, which is optionally substituted by C₁-C₄-alkoxy,

 R^6 is C_1 - C_4 -alkyl or phenyl, where C_1 - C_4 -alkyl is optionally substituted by phenyl,

R⁷ is hydrogen or C₁-C₄-alkyl which is optionally substituted by phenyl,

R⁸ is C₅-C₆-cycloalkyl, methoxymethyl or phenyl which is substituted by fluorine or chlorine,

or the salts, solvates and solvates of the salts a salt thereof.

4. (Currently Amended) A compound as claimed of the formula

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in which R¹ has the meanings indicated in claim 1, or the salts, solvates a salt thereof.

5. (Currently Amended) A process for preparing eompounds a claimed in any one of claims 1 to 4, characterized in that A eompounds a compound of the formula

in which

X is hydroxy or a suitable leaving group, are reacted is reacted with a compound of the formula

in which

R¹ has the meanings indicated in claim 1,

in an inert solvent, where appropriate in the presence of a condensing agent and where appropriate in the presence of a base,

or

B compounds a compound of the formula (II) initially are reacted is reacted with a compound of the formula

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in which

Y is a suitable leaving group, where appropriate in an inert solvent, where appropriate in the presence of a condensing agent and where appropriate in the presence of a base to give compounds of the formula

in which

Y has the abovementioned meanings, and the latter are then is then reacted in a coupling reaction with eompounds a compound of the formula

$$R^{1} \longrightarrow R^{0-R^{9}}$$

$$(VI)_{0}$$

in which

R¹ has the meanings indicated in claim 1, and

R⁹ is hydrogen or methyl, or the two radicals together form a CH₂CH₂ or C(CH₃)₂-C(CH₃)₂ bridge,

in an inert solvent in the presence of a suitable catalyst and in the presence of a base, and the resulting <u>compoundscompound</u> of the formula I <u>are reacted is reacted</u> where appropriate <u>with the with an</u> appropriate (i) <u>solvents and/or (ii) bases or acidsacid or base</u> to give a <u>salt the solvates</u>, salts and/or solvates of the salts thereof.

- 6. (Canceled)
- 7. (Currently amended) A medicament pharmaceutical composition comprising at least one of the compounds as claimed in any of claims 1 to 4 mixed with at least one pharmaceutically acceptable, essentially nontoxic carrier or excipient.
- 8. (Canceled)
- 9. (Canceled)
- 10. (Currently Amended) A method for the treatment and/or prophylaxis of impairments of perception, concentration, learning and/or memory in humans and animals comprising administering to said human or animal an effective amount of at least one compound as claimed in any of claims 1 to 4.

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11. (Canceled)

- 12. (Previously Presented) The process of claim 5, wherein X is a suitable leaving group selected from chlorine and pentafluorophenoxy.
- 13. (Previously Presented) The process of claim 5, wherein Y is a suitable leaving group selected from triflate and halogen.
- 14. (Previously Presented) The process of claim 13, wherein the halogen is bromine or iodine.